Cubing

Cubing is a DI strategy that helps students think about/work with a topic from many angles. The cubes could be designed by readiness, interest, or learning profile

# How it works:

1. Use a cube template with 6 faces.
2. On each face have a different command (using the six levels of Bloom’s Taxonomy) followed by a specific prompt so that you can create an appropriate task for each level of thinking for the subject area/topic you are studying.
   1. Describe . . . (knowledge level)
   2. Explain . . . (comprehension level)
   3. Develop . . . (application level)
   4. Classify . . . (analysis level)
   5. Create a new . . . (synthesis level)
   6. In your opinion . . . (evaluation level)

# Variations:

Students could be in groups, roll the cube, and do whatever the face shows. Or, each student has to roll until a new face turns up and do that.

Write who, what, where, when, why, how on each side. Use as a Comprehension check during fiction and non-fiction reading assignments.

Practice math facts

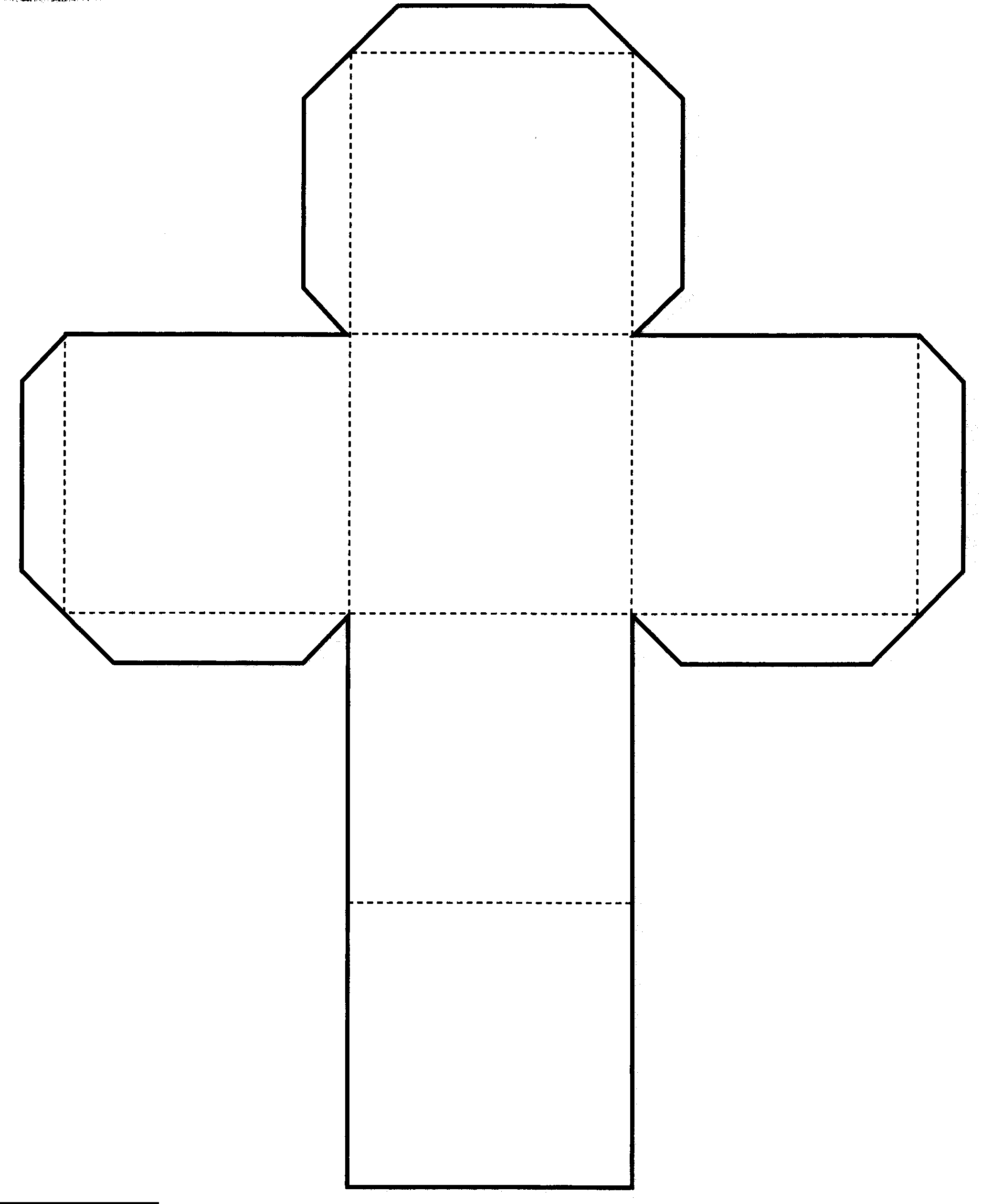
Review vocabulary words

Write phrases such as “Favorite Food” and “Favorite Book.” Use as a get-to-know-you activity at the beginning of the year

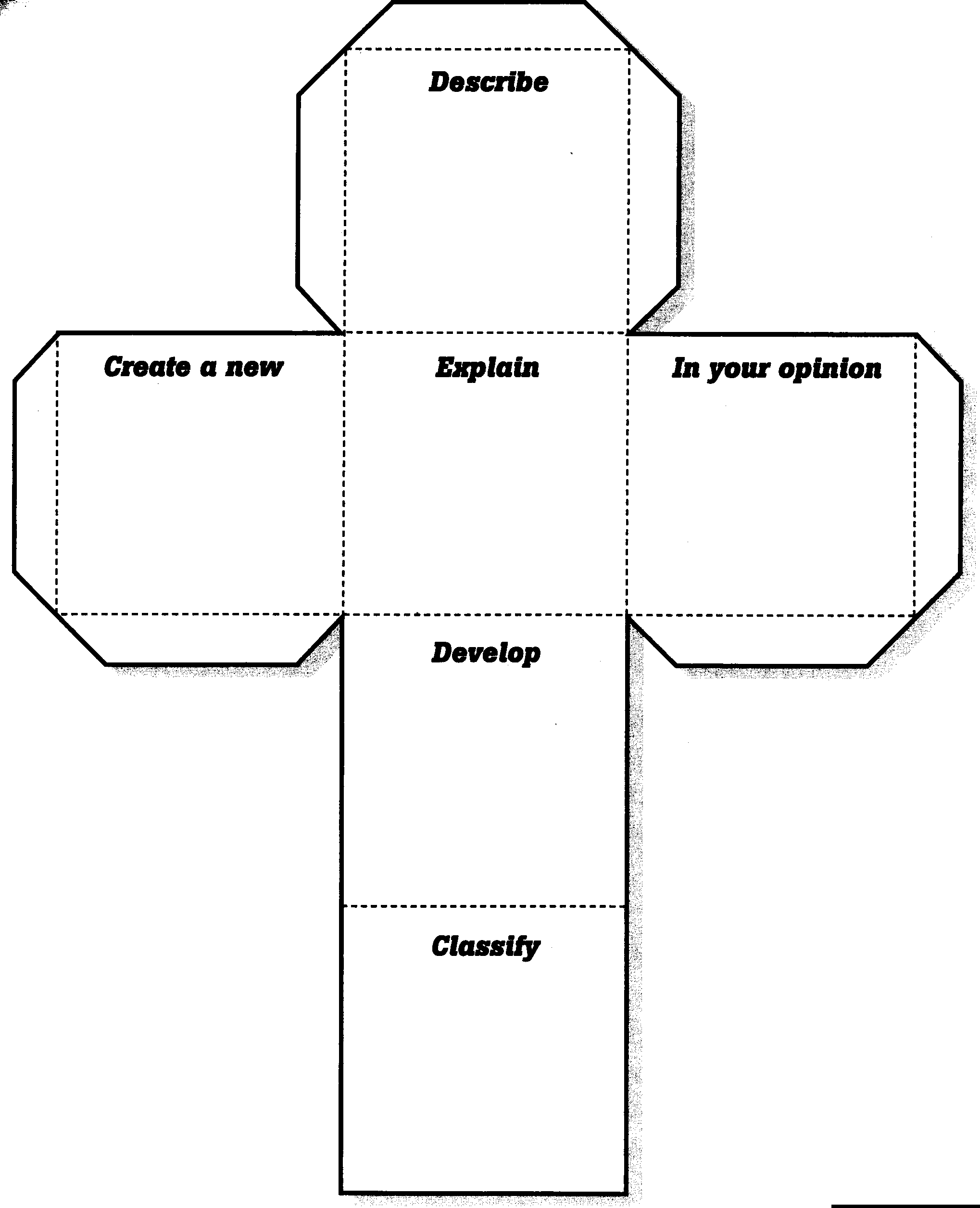
To cube for readiness: Give a different cube to each readiness group where the commands are similar, but the task varies in complexity (green-just right, red-less complex, blue-more complex)

To cube for interest/learning profile: Have various cubes, one with prompts for writing activities, another cube with oral activities, another with kinesthetic activities, etc.

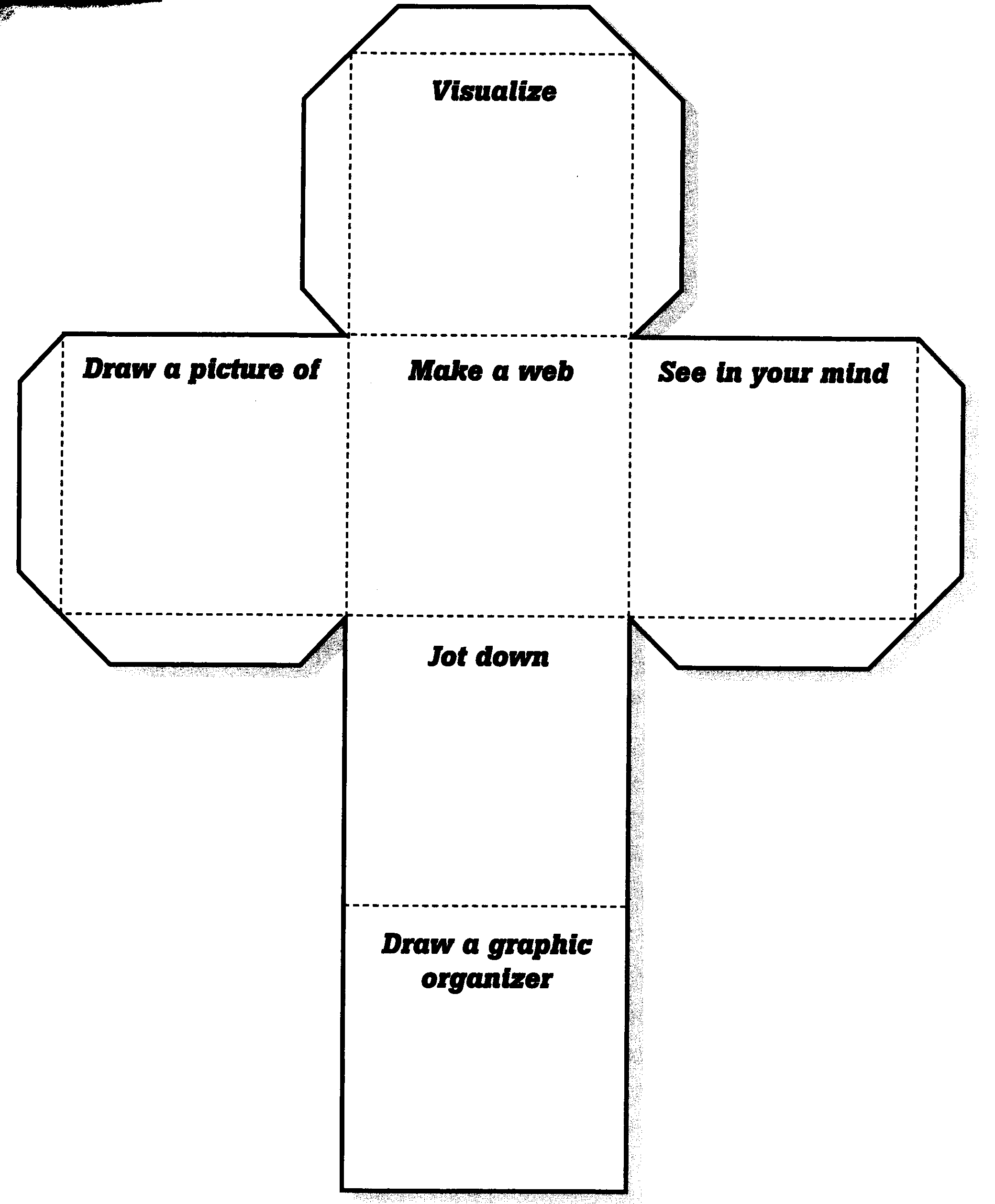
**Cube Pattern**



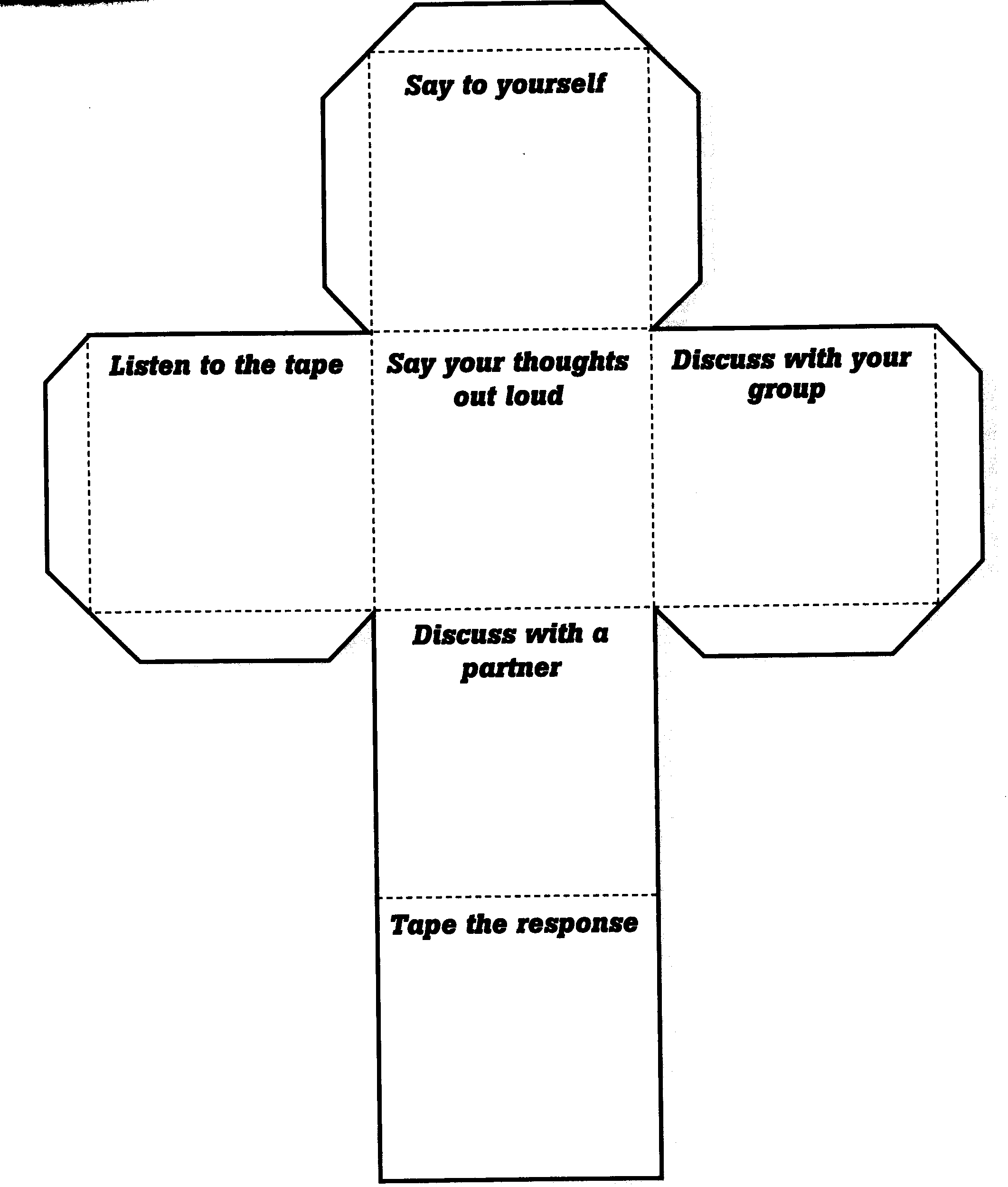
**Bloom's Cube**



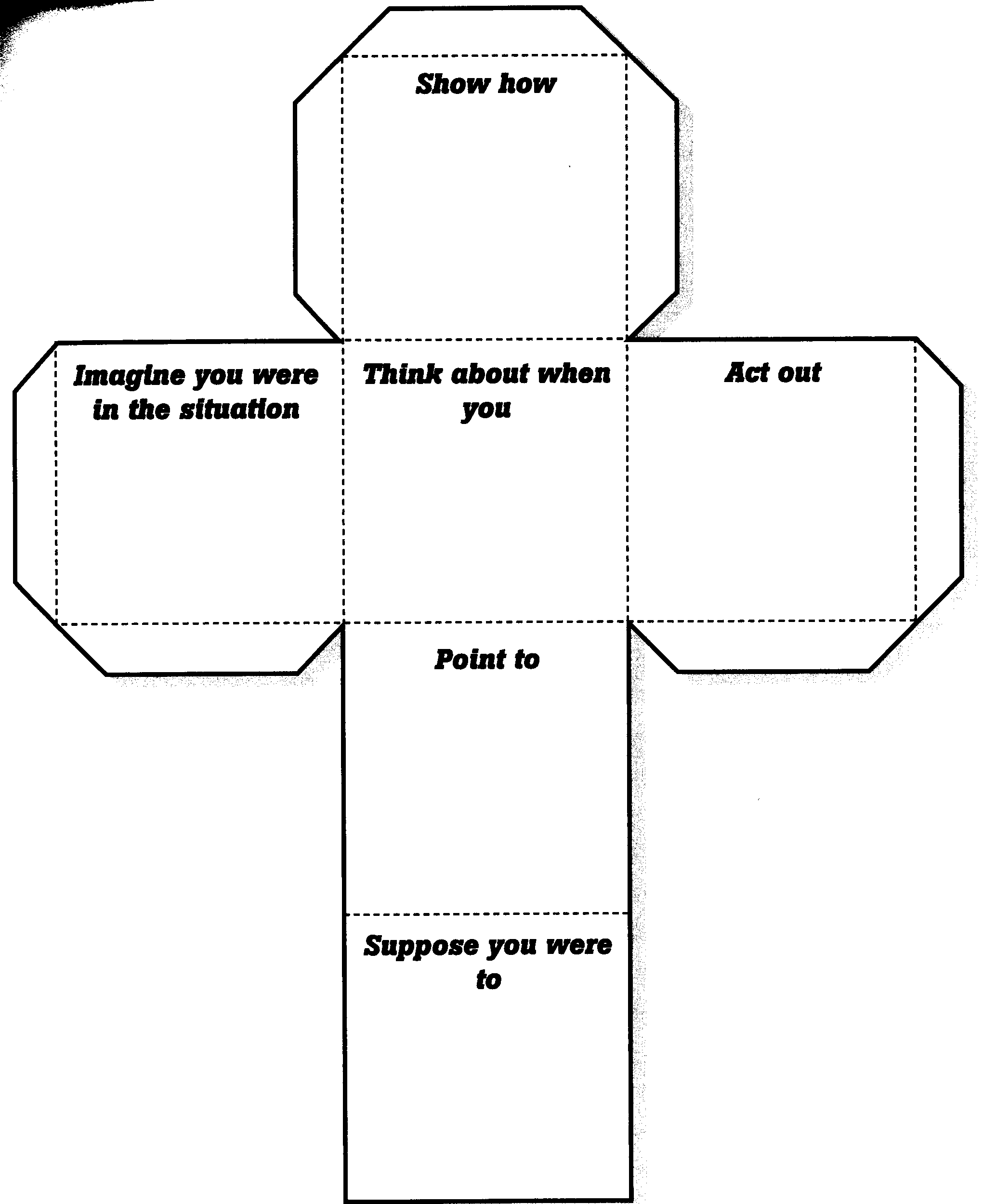
**For Visual Learners**



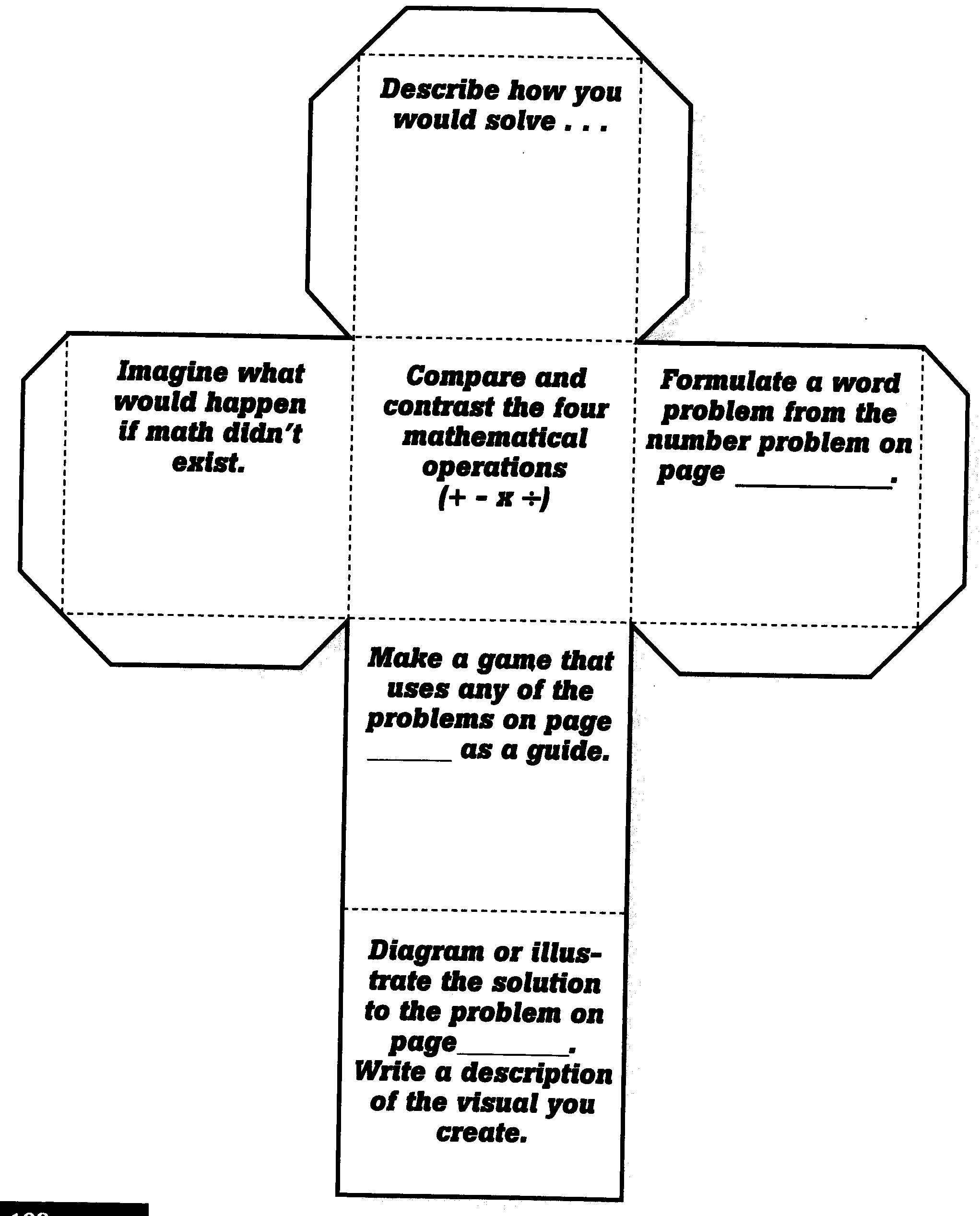
**For Auditory Learners**



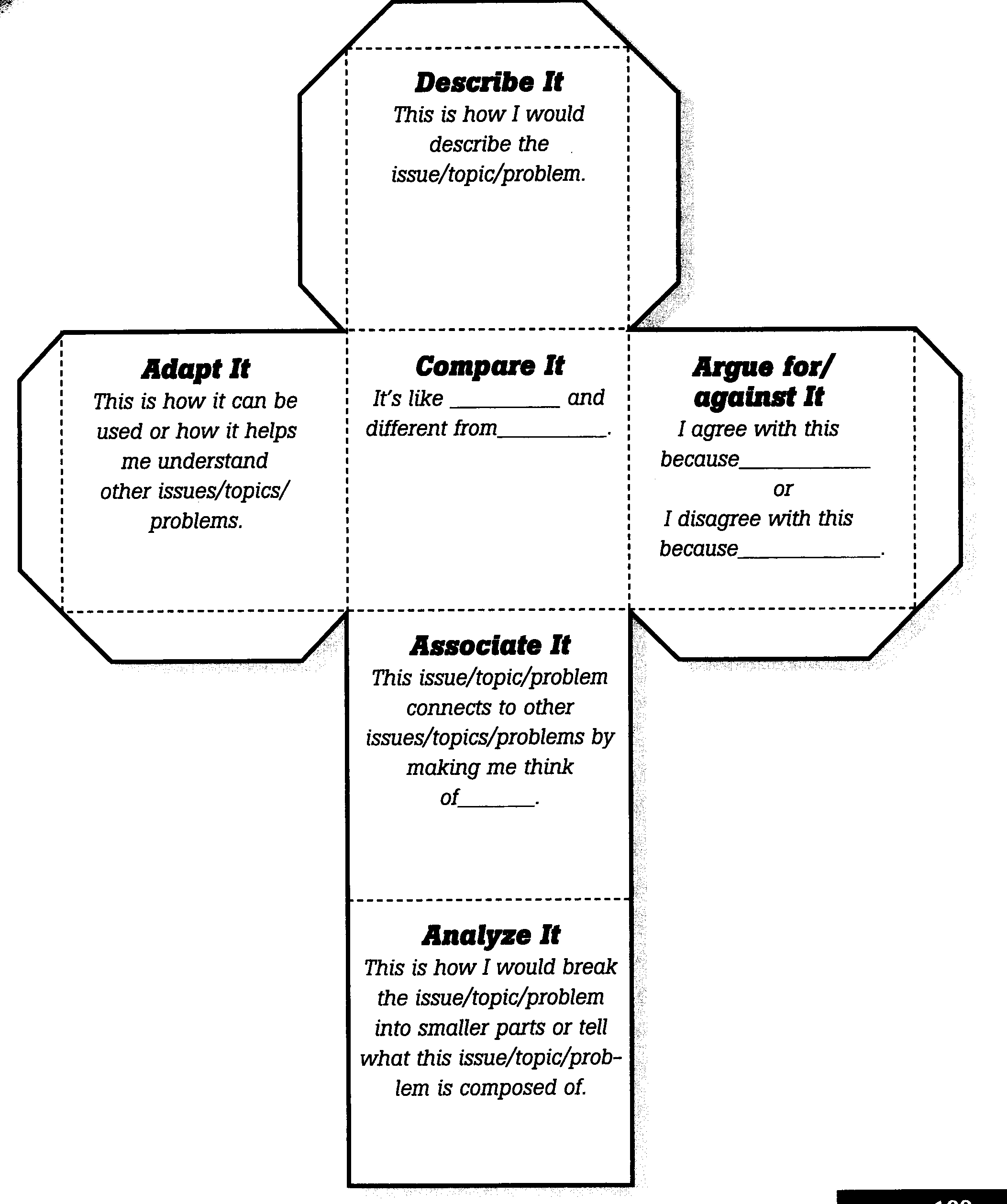
**For Kinesthetic Learners**



**Math Cube**



**Comprehension Cube**



**Knowledge**

**Applying Bloom’s Taxonomy**

|  |  |  |
| --- | --- | --- |
| Useful Verbs | Sample Question Stems | Potential activities and products |
| tell list describe relate locate write find state name | What happened after...? How many...? Who was it that...? Can you name the...? Describe what happened at...? Who spoke to...? Can you tell why...? Find the meaning of...? What is...? Which is true or false...? | Make a list of the main events.. Make a timeline of events. Make a facts chart. Write a list of any pieces of information you can remember.  List all the .... in the story. Make a chart showing... Make an acrostic. Recite a poem. |

**Comprehension**

|  |  |  |
| --- | --- | --- |
| Useful Verbs | Sample Question Stems | Potential activities and products |
| explain interpret outline discuss distinguish predict restate translate compare describe | Can you write in your own words...? Can you write a brief outline...? What do you think could of happened next...? Who do you think...? What was the main idea...? Who was the key character...? Can you distinguish between...? What differences exist between...? Can you provide an example of what you mean...? Can you provide a definition for...? | Cut out or draw pictures to show a particular event. Illustrate what you think the main idea was. Make a cartoon strip showing the sequence of events. Write and perform a play based on the story. Retell the story in your words. Paint a picture of some aspect you like. Write a summary report of an event. Prepare a flow chart to illustrate the sequence of events. Make a colouring book. |

**Application**

|  |  |  |
| --- | --- | --- |
| Useful Verbs | Sample Question Stems | Potential activities and products |
| solve show use illustrate construct complete examine classify | Do you know another instance where...? Could this have happened in...? Can you group by characteristics such as...? What factors would you change if...? Can you apply the method used to some experience of your own...? What questions would you ask of...? From the information given, can you develop a set of instructions about...? Would this information be useful if you had a ...? | Construct a model to demonstrate how it will work. Make a diorama to illustrate an important event. Make a scrapbook about the areas of study. Make a paper-mache map to include relevant information about an event. Take a collection of photographs to demonstrate a particular point. Make up a puzzle game suing the ideas from the study area. Make a clay model of an item in the material. Design a market strategy for your product using a known strategy as a model. Dress a doll in national costume. Paint a mural using the same materials. Write a textbook about... for others. |

**Analysis**

|  |  |  |
| --- | --- | --- |
| Useful Verbs | Sample Question Stems | Potential activities and products |
| analyse distinguish examine compare contrast investigate categorize identify explain separate advertise | Which events could have happened...? I ... happened, what might the ending have been? How was this similar to...? What was the underlying theme of...? What do you see as other possible outcomes? Why did ... changes occur? Can you compare your ... with that presented in...? Can you explain what must have happened when...? How is ... similar to ...? What are some of the problems of...? Can you distinguish between...? What were some of the motives behind...? What was the turning point in the game? What was the problem with...? | Design a questionnaire to gather information. Write a commercial to sell a new product. Conduct an investigation to produce information to support a view. Make a flow chart to show the critical stages. Construct a graph to illustrate selected information. Make a jigsaw puzzle. Make a family tree showing relationships. Put on a play about the study area. Write a biography of the study person. Prepare a report about the area of study. Arrange a party. Make all the arrangements and record the steps needed. Review a work of art in terms of form, colour and texture. |

**Synthesis**

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| --- | --- | --- |
| Useful Verbs | Sample Question Stems | Potential activities and products |
| create invent compose predict plan construct design imagine propose devise formulate | Can you design a ... to ...? Why not compose a song about...? Can you see a possible solution to...? If you had access to all resources how would you deal with...? Why don't you devise your own way to deal with...? What would happen if...? How many ways can you...? Can you create new and unusual uses for...? Can you write a new recipe for a tasty dish? can you develop a proposal which would... | Invent a machine to do a specific task. Design a building to house your study. Create a new product. Give it a name and plan a marketing campaign. Write about your feelings in relation to... Write a TV show, play, puppet show, role play, song or pantomime about...? Design a record, book, or magazine cover for...? Make up a new language code and write material suing it. Sell an idea. Devise a way to... Compose a rhythm or put new words to a known melody. |

**Evaluation**

|  |  |  |
| --- | --- | --- |
| Useful Verbs | Sample Question Stems | Potential activities and products |
| judge select choose decide justify debate verify argue recommend assess discuss rate prioritize determine | Is there a better solution to... Judge the value of... Can you defend your position about...? Do you think ... is a good or a bad thing? How would you have handled...? What changes to ... would you recommend? Do you believe? Are you a ... person? How would you feel if...? How effective are...? What do you think about...? | Prepare a list of criteria to judge a ... show. Indicate priority and ratings. Conduct a debate about an issue of special interest. Make a booklet about 5 rules you see as important. Convince others. Form a panel to discuss views, eg "Learning at School." Write a letter to ... advising on changes needed at... Write a half yearly report. Prepare a case to present your view about... |